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NOTES.

W. B. Smith, Ph. D., Professor of Mathematics in Tulane University of Louisiana, New Orleans, is at work on a 2-volume Calculus. He expects to have the first volume ready for the press by June, 1894. J. M. C.

Dr. D. E. Smith, of Michigan State Normal School, wrote under date of Nov. 6, "it may interest you to know that there is serious talk of starting a periodical in England this fall, devoted to Elementary Mathematics. J. M. C.

Dr. J. H. Boyd is now connected with the department of Mathematics in the University of Chicago. J. M. C.

Macmillan & Co. announce "An Elementary Treatise on Theoretical Mechanics" by Prof. Alex. Ziwet, of the University of Michigan, and "A Short Course in the Theory of Determinants" by L. G. Weld, M. A., Professor of Mathematics, State University of Iowa. J. M. C.

A new Mathematical Journal, *L'intermédiaire des Mathématiciens*, is announced to appear in January, 1894. The principal object of this new Monthly is to furnish, in answer to inquiries, information on Mathematical subjects, solutions to problems, etc. The address is Gauthier—Villars, 55, quai des Gauds—Augustins, Paris. The price is 6 francs annually. J. M. C.

EDITORIALS.

This Number of the MONTHLY was delayed on account of securing the plate of Professor Seitz's portrait. We hope to have future numbers to appear promptly each month. We will also make some improvement in the appearance of the Journal.

A number of fine problems and solutions were crowded out of this number. These will appear in February Number.

We are thankful for the encouraging words and generous aid received from so many friends from all parts of the country.

We cordially invite all our subscribers to contribute problems, solutions and papers. We will have them published in their turn.

We earnestly solicit all those into whose hands a copy of this number may fall to remit \$2.00, the price of subscription, to B. F. Finkel, Kidder, Missouri, and receive THE AMERICAN MATHEMATICAL MONTHLY for one year. No other Mathematical Journal of the scope, size, and quality has ever been offered to the public at so small a price. Send money by Post Office Money Order or by Draft.

The February Number will contain some very fine papers by noted Mathematicians. We name a few: A new solution to the Celebrated Indeterminate equation $x^2 - Ny^2 = \pm 1$, by A. H. Bell; Note on the Centroid of Plane Areas, by Professor G. B. M. Zerr; Remarks on Division, by J. K. Ellwood;

A Bibliography of the History of Geometry, also a list of Mathematical Periodicals, by Professor R. T. Aley; and, A Note on the Theory of Probability, by Professor G. B. M. Zerr.

Contributors can have copies of their solutions furnished them at very low rates by addressing the Publishers.

We will send THE AMERICAN MATHEMATICAL MONTHLY one year to any person sending us the names of four new subscribers accompanied with \$8.00.

If you receive a copy of this issue of the MONTHLY, please examine it thoroughly, and if you wish the MONTHLY to be sent to you regularly, remit \$2 at once to B. F. Finkel, Kidder, Mo.

BOOKS AND PERIODICALS.

Uniplanar Algebra, being Part I. of a propædæutic to the Higher Mathematical Analysis. By Irwing Stringham, Ph. D., Professor of Mathematics in the University of California. 8vo, cloth, XIV+146 pp. Price, \$1.25.

"From the beginning, with rare exceptions, a singular logical incompleteness has characterized our text-books in elementary algebra. By tradition algebra early became a mere technical device for turning out practical results, by careless reasoning inaccuracies crept into the explanation of its principles and, through compilers are still perpetuated as current literature. Thus, instead of becoming a classic, like geometry handed down to us from the Greeks, in the form of Euclid's ELEMENTS, algebra has become a collection of processes exemplified and of principles inadequately explained."

The object of this work is the systematic unfolding of algebra into organic forms, and from a careful examination of the book we can testify that the author has accomplished his object.

In the Introduction, the author treats Proportion by the Geometrical Method. Chapter I. is devoted to the treatment of the Laws of Algebraic operations; Chapter II. to Goniometric and Hyperbolic Ratios; Chapter III., to The Algebra of Complex Quantities; Chapter IV., to Cyclometry; Chapter V., to Graphical Transformations; and Chapter VI., to Properties of Polynomials. We highly recommend the work to those who desire to prepare themselves to read, intelligently, the Higher Mathematical Analysis.

B. F. F.

A Laboratory Manual. By G. B. M. Zerr, A. M., Principal Stanton Public Schools. Price 60 cents. Stanton, Va.: Caldwell and Holt.

The principal features of this Laboratory Manual are that the tabulated statements are short and yet contain all that is necessary to work intelligently. The matter is such as the author has used with his classes for several years. The book though small contains a thorough course in synthetic chemistry of the non-metals and metals, a thorough course in blow-pipe analysis, and a thorough course in qualitative analysis. All matter that is not practical has been omitted. Teacher of chemistry in the high schools and preparatory schools of the country will find this excellent little work by Professor Zerr well adapted to their needs.

J. M. C.

Table Book and Test Problems in Mathematics. By J. K. Ellwood, A. M., Principal of the Colfax School, Pittsburg, Pa. 16 mo, cloth, 288 pp. Price \$1.00, New York: American Book Company, 1892.

Part I. of this book contains a large collection of rules, theorems, formulas, tables of logarithms, sines, tangents, etc., indexed.